

What is claimed is:

1. An image forming apparatus comprising:  
an apparatus body;

image forming means at least partly implemented by  
a replaceable part, which is removably mounted to said  
apparatus body;

counting means for counting prints sequentially  
output with the replaceable part;

storing means and first writable and readable  
nonvolatile storing means built in said apparatus body;

second writable and readable nonvolatile storing  
means built in the replaceable part; and

control means for storing a limit number of prints  
particular to the replaceable part in said first  
nonvolatile storing means, storing, after an image forming  
operation, a cumulative number of prints counted by said  
counting means in said storing means and said second  
nonvolatile storing means, and reporting a time for  
replacing said replaceable part when said cumulative  
number stored in said storing means exceeds said limit  
number of prints stored in said first nonvolatile storing  
means.

2. The apparatus as claimed in claim 1, wherein said  
control means stores ID (identification) information of  
an individual replaceable part in said second nonvolatile

storing means, transfers said ID information to said storing means when said replaceable part is used, reads said ID information out of said second nonvolatile storing means when said replaceable part is mounted to said apparatus body, and updates, if said ID information is not identical with ID information particular to a previous replaceable part stored in said storing means, contents of said storing means with the number of prints and said ID information stored in said second nonvolatile storing means.

3. The apparatus as claimed in claim 2, further comprising means for allowing the limit number of prints to be variably written to said first nonvolatile storing means.

4. The apparatus as claimed in claim 3, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

5. The apparatus as claimed in claim 4, wherein the image forming condition is based on image density.

6. The apparatus as claimed in claim 4, wherein the image forming condition is based on a resource and energy save mode available for image formation.

7. The apparatus as claimed in claim 2, further comprising means for allowing the limit number of prints

to be variably written to said first nonvolatile storing means.

8. The apparatus as claimed in claim 7, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

9. The apparatus as claimed in claim 7, wherein the image forming condition is based on a resource and energy save mode available for image formation.

10. The apparatus as claimed in claim 1, wherein said control means stores ID (identification) information of an individual replaceable part in said second nonvolatile storing means, transfers said ID information to said first nonvolatile storing means when said replaceable part is used, reads said ID information out of said second nonvolatile storing means when said replaceable part is mounted to said apparatus body, and updates, if said ID information is not identical with ID information particular to a previous replaceable part stored in said first nonvolatile storing means, contents of said first nonvolatile storing means with said ID information stored in said second nonvolatile storing means.

11. The apparatus as claimed in claim 10, further comprising means for allowing the limit number of prints to be variably written to said first nonvolatile storing

means.

12. The apparatus as claimed in claim 11, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

13. The apparatus as claimed in claim 12, wherein the image forming condition is based on image density.

14. The apparatus as claimed in claim 12, wherein the image forming condition is based on a resource and energy save mode available for image formation.

15. The apparatus as claimed in claim 10, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

16. The apparatus as claimed in claim 15, wherein the image forming condition is based on image density.

17. The apparatus as claimed in claim 15, wherein the image forming condition is based on a resource and energy save mode available for image formation.

18. The apparatus as claimed in claim 1, further comprising means for allowing the limit number of prints to be variably written to said first nonvolatile storing means.

19. The apparatus as claimed in claim 18, wherein said controller corrects, in accordance with an image

forming condition, a count sequentially incremented for determining the cumulative number of prints.

20. The apparatus as claimed in claim 19, wherein the image forming condition is based on image density.

21. The apparatus as claimed in claim 19, wherein the image forming condition is based on a resource and energy save mode available for image formation.

22. The apparatus as claimed in claim 1, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

23. The apparatus as claimed in claim 22, wherein the image forming condition is based on image density.

24. The apparatus as claimed in claim 22, wherein the image forming condition is based on a resource and energy save mode available for image formation.

25. An image forming apparatus comprising:  
an apparatus body;

image forming means at least partly implemented by a replaceable part, which is removably mounted to said apparatus body;

counting means for counting prints output with the replaceable part;

first writable and readable nonvolatile storing means built in said apparatus body;

second writable and readable nonvolatile storing means built in the replaceable part; and

control means for storing a limit number of prints particular to the replaceable part in said first nonvolatile storing means, storing, after an image forming operation, a cumulative number of prints counted by said counting means in said first nonvolatile storing means and said second nonvolatile storing means, and reporting a time for replacing said replaceable part when said cumulative number stored in said first nonvolatile storing means exceeds said limit number of prints stored in said second nonvolatile storing means.

26. The apparatus as claimed in claim 25, wherein said control means stores ID information of an individual replaceable part in said second nonvolatile storing means, transfers said ID information to said first nonvolatile storing means when said replaceable part is used, reads said ID information out of said second nonvolatile storing means when said replaceable part is mounted to said apparatus body, and updates, if said ID information is not identical with ID information particular to a previous replaceable part stored in said first nonvolatile storing means, contents of said first nonvolatile storing means with the number of prints and said ID information stored in said second nonvolatile storing means.

27. The apparatus as claimed in claim 26, further comprising means for allowing the limit number of prints to be variably written to said first nonvolatile storing means.

28. The apparatus as claimed in claim 27, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

29. The apparatus as claimed in claim 28, wherein the image forming condition is based on image density.

30. The apparatus as claimed in claim 28, wherein the image forming condition is based on a resource and energy save mode available for image formation.

31. The apparatus as claimed in claim 26, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

32. The apparatus as claimed in claim 31, wherein the image forming condition is based on image density.

33. The apparatus as claimed in claim 31, wherein the image forming condition is based on a resource and energy save mode available for image formation.

34. The apparatus as claimed in claim 25, further comprising means for allowing the limit number of prints to be variably written to said first nonvolatile storing

means.

35. The apparatus as claimed in claim 34, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

36. The apparatus as claimed in claim 35, wherein the image forming condition is based on image density.

37. The apparatus as claimed in claim 35, wherein the image forming condition is based on a resource and energy save mode available for image formation.

38. The apparatus as claimed in claim 25, wherein said controller corrects, in accordance with an image forming condition, a count sequentially incremented for determining the cumulative number of prints.

39. The apparatus as claimed in claim 38, wherein the image forming condition is based on image density.

40. The apparatus as claimed in claim 38, wherein the image forming condition is based on a resource and energy save mode available for image formation.

41. In an IC (Integrated Circuit) chip to be connected to a CPU (Central Processing Unit) built in an apparatus body of an image forming apparatus when removably mounted to said apparatus body, and including nonvolatile storing means allowing data to be written therein or read thereout of under control of said CPU, said



nonvolatile storing means stores ID information particular to said IC chip and a cumulative number of prints output by said apparatus body with said IC chip,

the ID information and the cumulative number of prints are read out of said storing means and transferred to said apparatus body when said IC chip is mounted to said apparatus body, and

after management information including the cumulative number of prints have been processed, an existing cumulative number of prints is updated by the cumulative number of prints transferred from said IC chip.

42. In a replaceable part included in image forming means of an image forming apparatus, an IC chip is built in said replaceable part and connected to a CPU built in an apparatus body of said image forming apparatus when removably mounted to said apparatus body, and including nonvolatile storing means allowing data to be written therein or read thereout of under control of said CPU, said nonvolatile storing means stores ID information particular to said replaceable part and a cumulative number of prints output by said apparatus body with said IC chip,

the ID information and the cumulative number of prints are read out of said storing means and transferred to said apparatus body when said IC chip is mounted to said

apparatus body, and

after a cumulative number of prints output by said image forming apparatus with said replaceable part has been determined and after a time for replacing said replaceable part has been determined on the basis of said cumulative number of prints, an existing cumulative number of prints is updated by the cumulative number of prints transferred to from replaceable part.